

Datasheet for ABIN1691702

IL-13 Protein (AA 22-131) (His tag)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	IL-13 (IL13)
Protein Characteristics:	AA 22-131
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-13 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Interleukin-13/IL-13 (Pro22-Phe131,C-6His)
Sequence:	PVPRSVSLPL TLKELIEELS NITQDQTPLC NGSMVWSVDL AAGGFCVALD SLTNISNCNA IYRTQRILHG LCNRKAPTTV SSLPDTKIEV AHFITKLLSY TKQLFRHGPF VDHHHHHH
Characteristics:	Recombinant Mouse Interleukin-13/IL-13 (Pro22-Phe131,C-6His)
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	IL-13 (IL13)
Alternative Name:	Interleukin-13/IL-13 (IL13 Products)

Target Details

Background:	Recombinant Mouse Interleukin-13/IL-13 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Pro22-Phe131) of Mouse IL-13 fused with a polyhistidine tag at the C-terminus. Mouse interleukin 13 (mIL-13) is a pleiotropic cytokine produced by activated Th2 cells. IL-13 induces B cell proliferation and immunoglobulin production. It contains a four helical bundle with two internal disulfide bonds. Mouse IL13 shares 58 % sequence identity with human protein and exhibits cross-species activity. IL13 signals via receptor IL13R (type2, IL4R) and activates STAT-6. IL13 initially binds IL-13Rα1 with low affinity and triggers association of IL4Rα, generating a high affinity heterodimeric receptor IL13R and eliciting downstream signals. IL13 also binds IL-13Rα2 with high affinity, which plays a role in a negative feedback system of IL13 signaling. IL13 is an important mediator of allergic inflammation and disease.
Molecular Weight:	13.1 kDa
UniProt:	P20109
Pathways:	JAK-STAT Signaling , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Proton Transport

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.